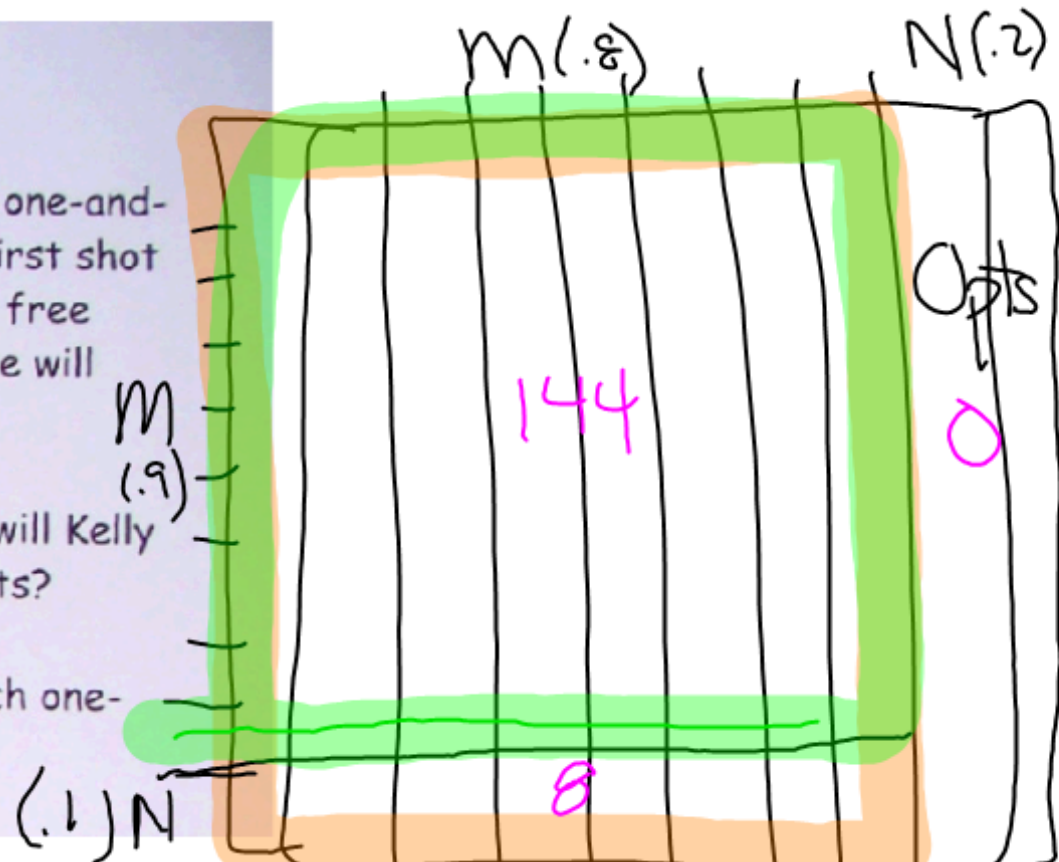


Streak Shooting Kelly

When streak shooting Kelly steps up for a one-and-one situation, her chances of making the first shot are 80%. However, if she makes her first free throw, then there is a 90% chance that she will make her second free throw.

1. In what percentage of the situations will Kelly score no points? One point? Two points?
2. What is Kelly's expected value for each one-and-one?



$$2 \text{ pts } (85\%?) \quad (72 \cdot .9(.8))$$

$$1 \text{ pts} = 8\% = .1(.8) \\ .08 = 8\%$$

$$\begin{array}{r} 0 \text{ pt} \quad 20\% \\ 1 \text{ pt} \quad 8\% \\ 2 \text{ pt} \quad 72\% \\ \hline 100\% \end{array}$$

Bagel Write Up Due Nov 12.

Sticky Gum
Whats on Back > Do them
ASAP

Martian Basektball
Due Fri (HW)

Right Now - Read Carrier Payment
Plan!

Carrier Payment Plan

	\$1 (.83)	\$10 (.17)
\$1 (.8)	$.8(.83)$ $.664$	
\$10 (.2)	$.2(.83)$ $= .166$	

$$\text{prob} - 1 = \frac{5}{6} \quad .83$$

$$-10 = \frac{1}{6} \quad .17$$

second pick

$$1 - \frac{4}{5} \quad .8$$

$$10 - \frac{1}{5} \quad .2$$

one time 10

5 per week

	10	1a	2b	3c	4d	5e
10	X	11	11	11	11	11
1a	11	X	2	2	2	2
2b	11	2	X	2	2	2
3c	11	2	2	X	2	2
4d	11	2	2	2	X	2
5e	11	2	2	2	2	X

\$2 prob

$$\frac{20}{30} \times 2$$

exp = $\frac{40}{30}$
val

\$11

$$\frac{10}{30} \times 11 =$$

exp = $\frac{110}{30}$
val

total exp val

$$- \frac{110}{30} + \frac{40}{30} = \frac{150}{30} = 5$$

#2 expected value =
probability \times value (pts)

Making 2 shots, $72\% \times 2 = 144$

1 shot, $8\% \times 1 = 8$

0 shot, $20\% \times 0 = 0$

152

expected
value
for
game